

L 5140-66 EWT(1)/EWT(m)/EPP(c)/EWP(t)/EWP(b)/ IJP(c) JD  
ACCESSION NR: AP5018637 UR/0185/65/010/007/0771/0777

AUTHORS: Vyshnevs'kyy, V. N. (Vishnevskiy, V. N.); Pidzyraylo, M. S. (Pidzyraylo, N. S.)

TITLE: Photoluminescence and photoluminescence excitation spectra of crystal NaI-Tl phosphors at liquid hydrogen and helium temperatures

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 7, 1965, 771-777

TOPIC TAGS: photoluminescence, crystal phosphor, excitation spectrum, scintillator, sodium compound

ABSTRACT: The photoluminescence and photoluminescence excitation spectra of NaI-Tl crystal phosphors were investigated at liquid hydrogen and helium temperatures. The activator contents were  $10^{-6}$  --  $1.2 \times 10^{-3}$  mole Tl/mole NaI. Single-crystal samples were cut from homogeneous single crystals in a desiccator and under atmospheric conditions. The spectra were investigated in the range 220 -- 600 nm using a DMR-4 monochromator, were normalized with the aid of

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sodium salicylate, and corrected for the spectral sensitivity of the setup. Two intense (at 438 and 330 nm) and one weak (at 374 nm) Tl luminescence bands were observed. The 374-nm band is due to an iodine excess in the crystals and its intensity differs from crystal to crystal. Both intense bands are complex and their half-width depends on the wavelength of the exciting radiation. Each intense luminescence band has its own characteristic excitation spectrum. The excitation spectra have a number of bands with which there appears short and long-wavelength luminescence. In these cases there is considerable overlap of excitation bands or energy migration from some centers to others. Investigations at various temperatures indicate that in NaI-Tl the population of the levels is strongly temperature dependent. Analysis of the excitation spectra indicates that luminescence connected with the  $^3P_2 \rightarrow ^1S_0$  transition should be observed in the short wavelength luminescence band. The authors thank UkrSSR Academician A. P. Prykhot'ko, M. T. Shpak, and A. V. Solov'yev for interest in the investigations and for making it possible to carry out the experiments at low temperatures. Orig. art. has: 3 figures

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ACCESSION NR: AP5018637

23

ASSOCIATION: Lvivs'ky derzhuniversytet im. I. Franka [L'vovskiy gosudarstvennyy universitet im. I. Franko] (L'vov State University)

44 SS

SUBMITTED: 29Aug64

ENCL: 00

SUB CODE: OP, SS

NR REF SOV: 006

OTHER: 006

ⓄC

Card 3/3

I. 65000-65 EWT(1)/EWT(m)/EPF(c)/EWP(t)/EWP(h) IJP(c) JD

ACCESSION NR: AP5013475 UR/0185/65/010/005/0531/053736

AUTHOR: Vyshneva'kyv, V. N. (Vishnevskiy, V. N.); Pidzyraylo, M. S. (Pidzyraylo, N. S.)

TITLE: Photoluminescence excitation spectra of NaI-Tl single crystals at liquid nitrogen temperatures

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 5, 1965, 531-537

TOPIC TAGS: photoluminescence, single crystal, excitation spectrum, sodium compound, iodide, thallium, luminescence spectrum, crystal phosphor

ABSTRACT: The authors studied the effect of temperature (-190°C to +100°C) on the excitation spectra of thallium-activated sodium iodide crystals grown by the Kyropoulos procedure in an open atmosphere with activator concentration ranging from  $1 \cdot 10^{-5}$  to  $1.2 \cdot 10^{-3}$  mol Tl/mol NaI. Bands were observed in the luminescence spectra at low temperatures which are apparently due to  $Tl^+$ ,  $Tl_2^+$ ,  $I_2$  and  $O_2$  luminescence centers. Temperature quenching begins much earlier for excitation in the exciton absorption region than for excitation in the activator absorption region. When the activator concentration is increased, there is a redistribution of intensities be-

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L 65000-65  
ACCESSION NR: AP5013475

6

tween bands, which is apparently due to a population redistribution on the corresponding levels. In the case of monocrystals with a small activator concentration (about  $10^{-6}$  -  $10^{-5}$  mol Tl/mol NaI), an intense excitation band appears which is classed as a D-band from its properties. "The single crystals which were studied were grown in the Scientific Research Laboratory for Growing Phosphor Crystals and Studying their Properties im. Iv. Franko. The authors thank the directors of this laboratory for furnishing us with these crystals." Orig. art. has: 3 figures.

ASSOCIATION: L'vivs'kyi derzhuniversytet im. Iv. Franka (Lvov State University) 4/55

SUBMITTED: 02Jul64

ENCL: 00

SUB CODE: SS, OP

NO REF SOV: 011

OTHER: 003

*bab*  
Card 2/2

I 00761-66 ENT(1)/ENT(m)/ENT(t)/ENT(b) IJP(c) JD

ACCESSION NR: AP5013476

UR/0185/65/010/005/0538/0542

AUTHOR: Vyshnevs'kyy, V. N. (Vishnevskiy, V. N.); Pidzyraylo, M. S. (Pidzyraylo, M. S.)

TITLE: Photoluminescence excitation spectra of NaCl and KCl single crystals activated by oxygen-containing impurities

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 5, 1965, 538-542

TOPIC TAGS: photoluminescence, single crystal, excitation spectrum, absorption spectrum, sodium chloride, potassium chloride, crystal impurity

ABSTRACT: Photoluminescence excitation spectra were studied in NaCl and KCl single crystals activated by CO<sub>2</sub>, NO<sub>2</sub> and NO impurity ions. The study was made in the -130 to +120°C temperature range. The activating ion content varied from 0.01 to 5 wt. %. The absorption spectra of the specimens were taken. It was found that the excitation spectra of these crystals are made up of two bands: 200-215 mμ and 260-265 mμ. The possible nature of these bands is discussed. Orig. art. has: 4 figures.

ASSOCIATION: L'vivs'kyy derzhuniverstet im. Iv. Franka (Lvov State University)

SUBMITTED: 29Jun64

ENCL: 04

SUB CODE: SS, OP

NO REF SOV: 003

OTHER: 009

Card 1/5

L 00761-66

ACCESSION NR: AP5013476

ENCLOSURE: 01

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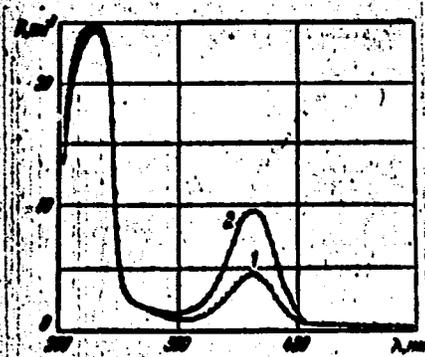


Fig. 1. Absorption spectra of KCl single crystal activated by  $\text{NO}_3^-$  (curve 1) and  $\text{NO}_2^-$  (curve 2) at room temperature.

Card 2/3

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ACCESSION NR: AP5013476

ENCLOSURE: 02

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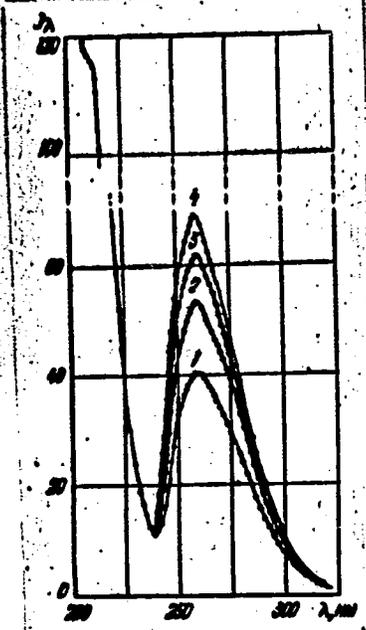


Fig. 2. Photoluminescence excitation spectra of KCl single crystal activated by  $\text{NO}_3^-$ : 1-- room temperature; 2--  $-3^\circ\text{C}$ ; 3--  $-30^\circ\text{C}$ ; 4--  $-130^\circ\text{C}$ .

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ACCESSION NR: AP5013976

ENCLOSURE: 03

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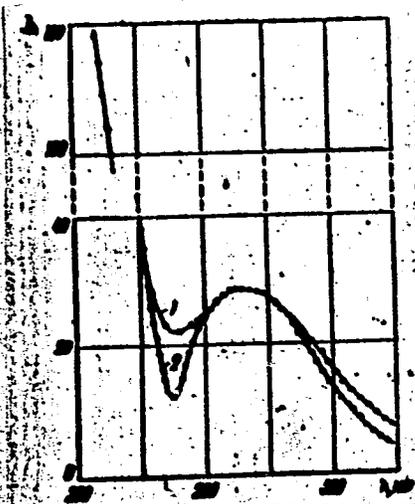


Fig. 3. Photoluminescence excitation spectra of NaCl single crystal activated by  $\text{CO}_3^{--}$  (curve 1) and  $\text{NO}_3^-$  (curve 2) at room temperature.

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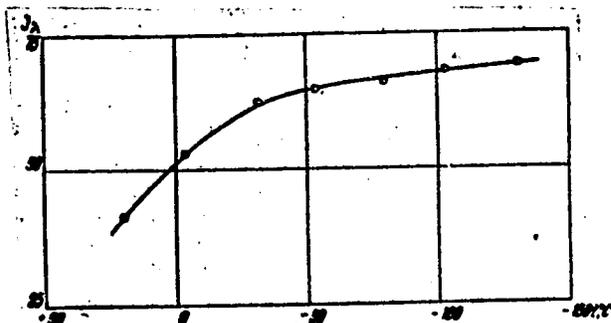


Fig. 4. Photoluminescence intensity as a function of temperature in a KCl single crystal activated by  $\text{NO}_2^-$  for excitation in the 260 m $\mu$  region.

Card 5/5

BRILINSKIY, M.I. [Brylins'kiy, M.I.]; VISHNEVSKIY, V.N. [Vyshnevs'kiy, V.N.];  
PIDZYRAYLO, M.S. [Pidzyrailo, M.S.]; SOLOV'YEVA, Yu.N. [Soloviova,  
Y.M.]

Absorption capacity of synthetic rubies in the region of a  
resonance doublet. Ukr. fiz. zhur. 10 no.4:427-431. Apr 1965.  
MirA 19:43

1. L'vovskiy gosudarstvennyy universitet im. Iv. Franko.

VISHNEVSKIY, V.N.; PIDTYRAYLO, N.S.; S IAVIYENVA, Yu.N.

Temperature dependence of the absorption capacity of synthetic  
ruby in the region of a resonance doublet. Opt. i spektr. 1975  
n. 3:517-520. Mr 165. (MIRA 18:1)

ROMANYUK, N.A.; PIDZYRAYLO, N.S.

Changes in some of the dielectric and optical properties of  
crystals of Rochelle salt due to hard radiation. Kristallografiya  
9 no.6:870-875 N-D '64. (MIRA 18 2)

1. L'vovskiy gosudarstvennyy universitet i Institut kristallografi  
AN SSSR.

1 45754-65 EWT(s)/EWP(1)/EWP(s) WH  
ACCESSION NR: AP5011068

UR/0185/65/010/004/0427/0431

AUTHOR: Brilins'kyy, M. I. (Brilinskiy, M. I.); Vyshnevs'kyy, V. N. (Vishnevskiy, V. N.); Pidzraylo, M. S. (Pidzraylo, N. S.); Solovyova, Yu. M. (Solov'yeva, Yu.N.)

TITLE: Absorption of synthetic rubies in the region of the resonance doublet

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 4, 1965, 427-431

TOPIC TAGS: synthetic ruby, resonance doublet, line width, doublet spacing, temperature dependence, chromium impurity

ABSTRACT: The absorption spectra of synthetic rubies were investigated in the region of the resonance doublet, for a chromium impurity content variation from 0.043 to 0.7%. The purpose of the investigation was to determine the concentration dependence of the absorption coefficient and the temperature dependence of the half-widths of the R-lines. The absorption spectra were investigated in polarized light using a spectrograph and a monochromator. A total of 25 synthetic rubies, prepared in the form of plates cut perpendicular to the optical axis, were investigated. The half-widths of the absorption lines were investigated with a spectrograph by photographic means in the temperature range from -150 to +80C.

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L 45754-65  
ACCESSION NR: AP5011068

The absorption coefficients were found to be linear in the concentration within 2-4% accuracy, and could be approximated by the formula  $k = \epsilon C$ , where  $k$  is the absorption coefficient,  $C$  is the chromium concentration, and  $\epsilon$  is a constant with values 8.45 and 6.17  $\text{cm}^{-1}$  for  $R_1$  and  $R_2$ , respectively. The temperature dependence of the line half-width was found to vary exponentially in accordance with the formula  $\lambda = 6900 + ae^{bT}$ , where  $a = 26.8 \text{ \AA}$  and  $b = 0.0021 \text{ deg}^{-1}$ . This applies to the temperature range from -195 to +500. Above this temperature the dependence becomes linear. Orig. art. has: 4 figures and 1 formula. [92]

ASSOCIATION: L'vivs'kyi derzhuniversytet im. Iv. Franka [L'vovskiy gosuniversitet im. I. Franko] (L'vov State University)

SUBMITTED: 17Jun64

ENCL: 00

SUB CODE: FOP, MT

NO REF SOV: 001

OTHER: 009

ATD PRESS: 4001

Card 2/2

L. 36330-65 EWD(j)/EWA(k)/FBD/EWT(l)/EWP(e)/EWT(m)/EEC(k)-2/EPO(t)/T/EWP(k)/  
 EEC(b)-2/EWA(m)-2/EWA(h) Pn-l/Po-l/Pr-l/PeB/Pi-l/P1-l IJP(c) WG/WH  
 ACCESSION NR: AP5006443 8/0051/65/018/003/0517/0520

AUTHOR: Vishnevskiy, V. N.; Pidzyraylo, N.S.; Solov'yeva, Yu. N.

TITLE: Temperature dependence of the absorptivity of synthetic ruby in the region of the resonant doublet

SOURCE: Optika i spektroskopiya, v. 18, no. 3, 1965, 517-520

TOPIC TAGS: ruby, ruby laser, synthetic ruby, absorption, temperature dependence

ABSTRACT: The purpose of the investigation was to determine the temperature dependence of the light absorption coefficient in ruby for both components of the resonant doublet ( $R_1$  at  $\lambda = 6942 \text{ \AA}$  and  $R_2$  at  $\lambda = 6927 \text{ \AA}$ ) over an appreciable temperature interval. The absorption spectra were recorded with a photoelectric spectrophotometer system based on the DFS-8 spectrograph and UM-2 monochromator. A diagram of the set-up is shown in Fig. 1 of the Enclosure. The investigations were made on five samples of synthetic rubies with identical chromium content (0.15%), made in the form of plates 5 mm thick, cut at an angle of  $90^\circ$  to the optical axis of the crystal. The sample was placed either in a heating oven or in a cryostat cooled with liquid nitrogen. The tests have shown that in the entire

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1: 36330-65  
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Investigated temperature range the doublet components are separated most distinctly at liquid-hydrogen temperature. With increasing crystal temperature, the half-width of the bands increases, and their resolution deteriorates. The bands merge into one when the crystal temperature exceeds +4500. The doublet component with longer wavelength has higher intensity at all temperatures. The ratio of the absorption coefficients at the band maxima is 1.4 for temperatures from -195 to +1030, in agreement with the data of F. J. McClung et al (J. Appl. Phys. v. 33, 3139, 1962). The ratio decreases somewhat with increasing temperature. With increasing temperature, the absorption coefficients at both maxima decrease, and the bands themselves shift toward longer wavelengths. The data of K. S. Gibson (Phys. Rev. v. 8, 38, 1916) and of I. D. Abella and H. L. Cummins (J. Appl. Phys. v. 32, 1177, 1961) are confirmed in some temperature intervals. Orig. art. has: 4 figures and 1 formula. [02]

ASSOCIATION: none

SUBMITTED: 27Mar64

ENCL: 01

SUB CODE: OP,TD

NO REF SOV: 001

OTHER: 010

ATD PRESS: 3219

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L 36330-65  
ACCESSION NR: AP5006443

ENCLOSURE: 01

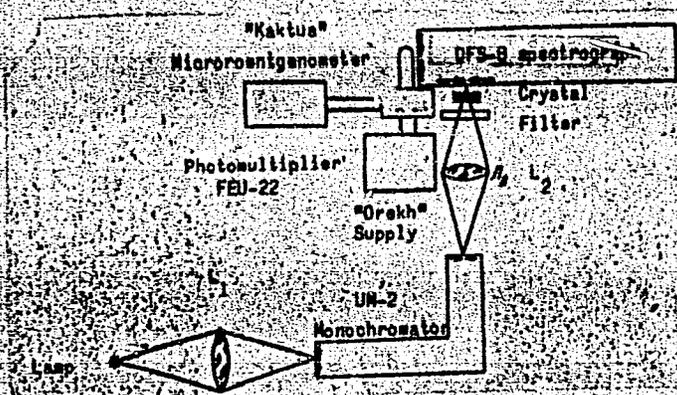


Fig. 1. Diagram of set-up for the investigation of the absorptivity of ruby in the region of the resonant doublet

Card 3/3 *ko*

Estimation of certain quality characteristics of plate. Witold Romer, M. Grenda, E. Janiewicz, E. Patek, and W. Pleszczyński. (Inst. Fiz. Wroclaw, Poland), J. Phot. Sci., 144-9 (1952).--Sensitometric criteria are proposed for measuring the "effective contrast" of photographic materials for line and halftone work. Methods of estg. the resolving power of materials in line photography and of dot quality in the halftone process are described. A dot quality coeff. is formulated. Coeff. of correlation between the contrast coeff. and resolution is found for material of conventional type but a correlation is found for materials of the "litho"-type. A linear relation is found between the dot quality coeff. and the contrast coeff. for both conventional and litho-type materials. Latitude requirements for continuous tone copying of original are formulated. None of the materials tested satisfy these requirements. Author.

P. LEBAŃSKI.

5016 ON THE "DIPOLE PROCEDURE" IN GENERAL RELATIVITY THEORY. L. Infeld and J. Plebański. Bull. Acad. Polon. Sci. Cl. 3, Vol. 4, No. 11, 703-7 (1956). The approximation procedure for the derivation of solutions of motion from the field equations is expressed in a covariant manner by using the covariant formulation developed by the authors (see preceding abstract). H.A. Newing

PIEBANSKI, J.; KULIKOWSKI, R.

Optimum frequency. ARCHIWUM ELEKTROTECHNIKI. Warszawa. Vol. 4, no. 2, 1955

Source: East European Accessions List, (EEAL), Lc, Vol. 5, No. 3, March, 1956

PIEBANSKI, J.

① Elec

Polish Technical Abst.  
No. 4, 1953  
Mechanics, Electro-  
technics, Power

2419 ✓

621.396:663

Piebanski J. Improvement in Directional Characteristics and Other Application of the Rotary Field.

Polepszenie charakterystyk kierunkowych i inne zastosowanie pola wirujacego. Przegląd telekomunikacyjny. No. 2, 1953, pp. 49-59, 16 figs.

The author has carried out an analysis on the basis of which it is possible conveniently to reduce the spacing of aerials or groups of aerials radiating the rotary field for direction finding purposes, and also to attenuate the radiation from the side lobes. He deals with a method for increasing n-times the phase differences, thereby creating a possibility of rotating the directional characteristics through an angle from 0° to 360°, without having to modify the shape of the characteristics and of measuring the distance between transmitter and receiver, as well as enabling determination of the altitude of aircraft, blind-landing and other factors.

PIEBANSKI, T.

1/10/19

011 521.5

Piebański T., Ponikiewski A. Remarks on Methods in Productivity Experiments.

"Uwagi o metodach doświadczeń produktywnych". Prace Nauk Rolniczych. No. 2, 1955, pp. 65-90, 2 tabs.

The transportation to large-scale production of the results of cultivation experiments made on small plots is impeded by the great differences in cultivation conditions on the small plots and the larger areas. Furthermore, on the plots it is impossible to take into account organizational problems of full-scale production. A farm is an integral whole, hence, an investigation on the economic effects of a new factor must have reference to all the changes resulting from such an innovation. This means that all differences produced by any innovation in the organizational plan must be considered in relation to the economic effectiveness of the entire farm. In productivity experiments carried out over areas of from 2-5 hectares, it is possible to apply methods more closely approximating to those of full-scale production; the results thus obtained are therefore closer to the results which will later be obtained in production. Moreover, experiments of this kind make it possible to establish such economic factors as the quantity of labour required and enable the necessary calculations to be made. Productivity experiments should be carried out on several farms simultaneously over a period of at least 3 years. The experimental error in such experiments ranges from 5 to 15 per cent of the crop. It remains necessary to work out an accurate method of evaluating crops from sample plots. Accuracy in agricultural research is a matter of great

PC

①

OVER

SYCH, Marek; PIECH, Andrzej; GLAZUR, Janina; MOROZ, Janusz;  
SZLEZYNGER, Jozef; WECLAWOWICZ, Janusz; STEFANKO, Stanislaw;  
LADZINSKI, Kazimierz

Clinical and experimental studies on the use of fluothane in  
general anesthesia. Pol. przegi. chir. 35 no.10/11 1044-1048  
'63.

1. Z I Kliniki Chirurgicznej AM w Krakowie Kierownik: prof.  
dr J. Bogusz z Oddzialu Chirurgicznego Szpitala Wojskowego  
w Krakowie Ordynator pik. dr A. Bielas z Pracowni Anatomico-  
patologicznej Szpitala Wojskowego w Krakowie Kierownik: mjr  
doc. dr S. Stefanko z Kliniki Neurochirurgicznej AM w Krakowie  
Kierownik: prof. dr A. Kunicki.

(ELECTROENCEPHALOGRAPHY)  
(LEUKOCYTE COUNT)  
(ELECTROCARDIOGRAPHY)  
(EPINEPHRINE) (PHARMACOLOGY)  
(BLOOD PRESSURE)

SYCH, Marek; PIECH, Andrzej

Hypno-analgesia in so-called "minor surgery" with the aid of trichlorene and inactin. Pol. tyg. lek. 18 no.11:391-393 11 Mr '63.

1. Z I Kliniki Chirurgicznej AM w Krakowie; kierownik: prof. dr Jozef Bogusz.

(TRICHLOROETHYLENE) (BARBITURATES)  
(ANESTHESIA, INHALATION)  
(SURGERY, MINOR)

POLAND

SYCH, Marek and PIECH, Andrzej, First Surgical Clinic of  
Klinika Chirurgiczna), AM (Akademia Medyczna, Medical Aca-  
demy) in Krakow (Director: Prof. Dr. Jozef BOGUSZ)

"Trichlorone and Inactin to induce Hypno-analgesia for so-  
called 'Small Surgery'."

Warsaw. Poliski Tygodnik Lekarski, Vol 18, No 11, 11 Mar 63,  
pp 371-373.

Abstract: [Authors' English summary modified] Authors de-  
scribe a method for using both inactin (hypnotic agent)  
and Trichlorone (analgesic only) prior to minor operations.  
Method employed in 119 patients undergoing surgery lasting  
30 secs -- 19 mins. All patients awoke in a good mood and  
complained only of headache. Complications were minor, and  
all patients were given analgesic after operation. Authors  
recommend this method as being advantageous to both patient  
and surgeon. Of the 11 references, 3 are Polish, 2 are  
German, and 6 are English.

| 1/1

*Grech, R*  
GRECHIKHIN, A., podpolkovnik; VOLKOV, A., polkovnik; ~~PEKH~~, B., dotsent,  
kand. voyennykh nauk, polkovnik

On fire control of rifle and tank units. Voen. vest 39 no.5:72-R2  
My '59. (MIRA 12:10)  
(Infantry drill and tactics) (Tank warfare) (Fire control (Gunnery))

PEKH, 7.

*Hech, B.*

The breadth of the tank's zone of fire in offensive action. No 12.

Tankist, No 12, 1948.

PEKH, B.  
PEKH, B.

Piech, B.

Range adjustment by means of a moving target. No 11.

Tankist, No 12, 1948.

~~PEARL, B.~~

PEKH, B.

Piech, B.

Tank firnig positions. No 8.

Tankist, No 12, 1948,

PEKH, B.

*Piech, B.*

A comparative evaluation of various types of fire. No 5.

Tankist, No 12, 1948.

PEKH, B.

*Pech, B.*

Stationary target firing from an on target briefs. No 4.

Tankist, No 13, 1 1/2.

PEKH, B.I.

[Textbook on firing the trench mortar] Uchebnik po strel'be iz  
minometov. Moskva, Voen.izd-vo, 1945. 243 p. (MLRA 7:3)  
(Trench mortars)

PIECH, Jozef (Gliwice); WOJTAN, Tadeusz (Gliwice)

Thin-walled ferroconcrete coating of hyperboloidal cold stores during the winter season. Przegl budowl i bud mieszk 35 no.1: 27-29 Ja '63.

L 37241-66 FCC

ACC NR: AP6027826

SOURCE CODE: GE/0064/66/018/05-/0286/0289

AUTHOR: Kozminski, G. (Doctor; Szczecin); Piech, M. (Doctor; Szczecin)

ORG: Higher School of Agriculture, Szczecin, Poland (Wyzsza Szkola Rolnicza)

TITLE: Considerations on the frequency of hailstorms and hailstorm damage in Poland

SOURCE: Zeitschrift fur meteorologie, v. 18, no. 5-7, 1966, 286-289

TOPIC TAGS: hail, atmospheric phenomenon, sunspot, long range forecasting

ABSTRACT: Data pertaining to the quarter-yearly frequency averages of hailstorms and damages caused by these hailstorms in Poland between 1925 and 1964 were presented in charts and tables on the basis of data from 16 state meteorological-hydrological institutes and insurance company records. The damages were mainly damages to agricultural crops. Correlations between hailstorm characteristics and damages, and between hailstorm incidence and some other meteorological phenomena such as sunspot activity were calculated. The significance of these analyses in the long-range forecasting of hailstorm damages for practical purposes was discussed. Orig. art. has: 3 figures and 1 table. [JPRS: 36,844]

SUB CODE: 04, 03 / SUBM DATE: none / ORIG REF: 005 / OTH REF: 001

Cord 1/1 *MLP*

UDC: 551.578.7(438):551.577.61

*1338*

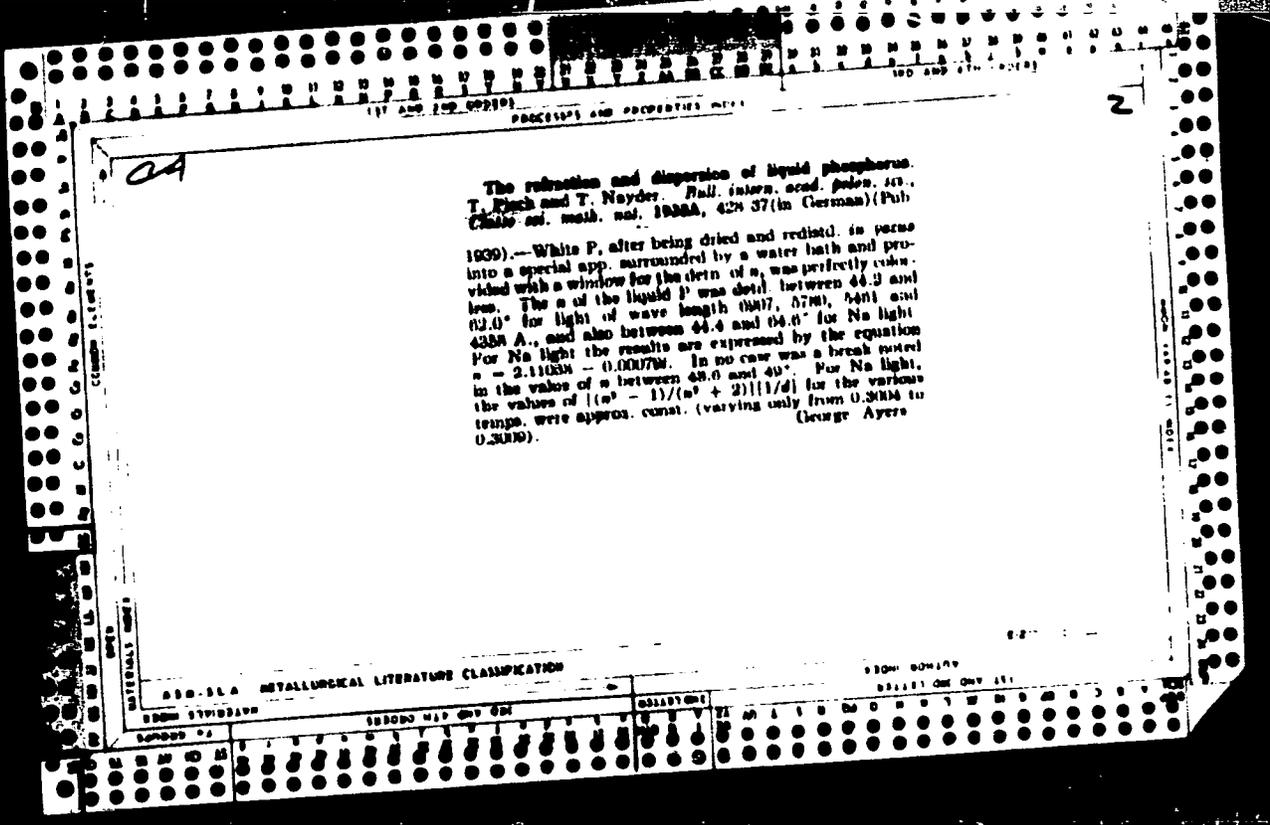
PIECH, Marian; KOZMINSKI, Czeslaw

Usefulness of certain statistical methods for the evaluation of the effectiveness of hail suppression under Poland's climatic conditions. Postepy nauk roln 11 no.6:93-96 N-D '64.

1. School of Agriculture, Szczecin.

12-11-64

Organization and trends in studies and experimentation in the  
propaganda in the German Democratic Republic (DDR) - 12  
12-11-64 JAF-10



PIECH, TADEUSZ.

Piech, Tadeusz. - Zarys historii fizyki w Polsce. Krakow, Nakl. Polskiej Akademii Umiejetnosci; skl. gl. w ksieg. Gebethnera i Wolffa, 1948. 45 p. (Polska Akademia Umiejetnosci. Historia nauki polskiej w monografiach, 3) [Historical outline of physics in Poland. French summary]

SO: Monthly List of East European Accessions, L.C., Vol. 3, No. 4, April, 1954

PIECH, T.

POLAND/Chemical Technology. Chemical Products and Their Application - Silicates. Glass. Ceramics. Binders. I-9

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 12585

Author : Jezewski M., Piech T.  
Title : Dependence of the Dielectric Properties of Ceramic BaTiO<sub>3</sub> for High Frequency Currents on the Technology of the Preparation of Samples.

Orig Pub : Acta phys. polon., 1955, 14, No 5, 395-405 (English; Russian summary)

Abstract : By means of conventional ceramic technology were prepared 4 groups of samples of BaTiO<sub>3</sub> (A, B, C, D). Each subsequent was produced from the preceding by comminution, pressworking and repeated firing at ~ 1350°. Samples A, B, C were held at the maximum temperature for 4 hours, samples D for 8 hours. Total time during which samples A, B, C were in the furnace was of 18 hours, that of samples D of 130 hours. Absolute porosity of the samples

Card 1/2

- 18 -

PIECH, T.

"Scientific activities of professor Konstanty Zakrzewski"

p. 213 (Kosmos. Seria B; Przyroda Nieożywiona, Journal on natural sciences with the exception of biology issued by the Copernicus Society of Polish Naturalists, Vol. 4, no. 3, 1958, Warsaw, Poland)

Monthly Index of East European Accessions (EEAI) LC, Vol. 8, No. 1, Jan. 59.

L 34703-65 EPF(n)-2/EPA(s)-2/EPA(w)-2/EWT(m)/EWP(b)/EWP(e) Pt-10/Pu-4/Pab-10  
ACCESSION NR: AP4049389 WH P/0045/64/026/002/0211/0216

AUTHOR: Jazawski, M.; Piech, T.; Glucksman, S.

TITLE: The double thermal hysteresis loop in the permittivity of barium titanate ceramics

36  
30  
B

SOURCE: Acta physica Polonica, v. 26, no. 2, 1964, 211-216

TOPIC TAGS: thermal hysteresis loop, dielectric permittivity, barium titanate ceramic, thermal hysteresis, intermediate transition point

ABSTRACT: The dielectric permittivity of aged and newly prepared barium titanate ceramics was measured in the neighborhood of transition points lying below the Curie point. The shape of thermal hysteresis loops in samples rejuvenated by heating above the Curie point and the effect obtained by applying a strong external electrostatic field were also investigated. The specimens were prepared in the form of flat disks from chemically pure components, TiO<sub>2</sub> and BaCO<sub>3</sub> by means of repeated sintering. These disks were then assem-

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ACCESSION NR: AP4049389

bled into three-plate capacitors whose capacitance was measured. Each capacitor with specimens was first heated to 40C, the temperature was lowered very slowly to -40C, then raised slowly to the initial temperature. The results are shown in Figs. 1 and 2 of the Enclosure. It was found that barium titanate ceramics show marked hysteresis in the vicinity of the intermediate transition point. Aged specimens showed double closed loops while newly prepared specimens exhibited single loops. A strong biasing field induced shifts toward higher temperatures without changing the shape of the loop in aged specimens, and a transition to double loops in newly prepared specimens and in rejuvenated specimens. Orig. art. has: 4 figures.

ASSOCIATION: Katedra Fizyki I, Cracow (I Chair of Physics Mining and Metallurgical Academy)

SUBMITTED: 16Mar64

ENCL: 02

SUB CODE: SS, EN

NO REF SOV: 000

OTHER: 010

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ACCESSION NR: AP4049389

ENCLOSURE: 01

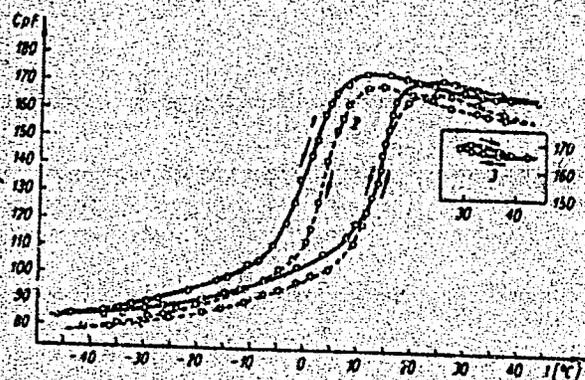


Fig. 1. Curve 1 (continuous line) represents temperature dependence of capacity of condenser with aged specimens; curve 2 (dashed line) shows temperature dependence of capacity after applying a biasing electrostatic field

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ACCESSION NR: AP4049389

ENCLOSURE: 02

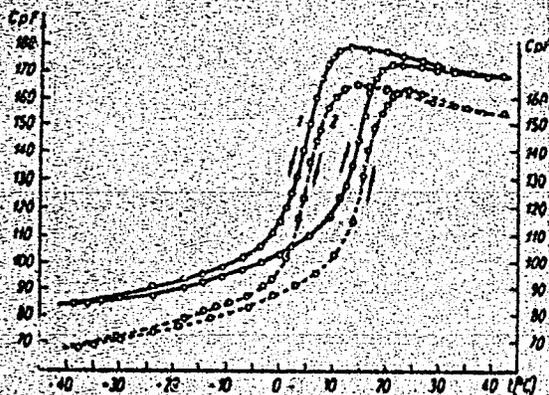


Fig. 2. Curve 1 (continuous line) represents temperature dependence of capacity of condenser with rejuvenated specimen; curve 2 (dashed line) shows temperature dependence after applying the biasing electrostatic field. In the diagram, curve 2 has been traced lower according to the right hand side scale

Card 4/4

JEZEWSKI, M., PIETH, T., MUCKERMAN, J.

Double-Metal Oxide Reactors for the Hydrolysis of  
Ceramics. *Am. Phys. Soc. Div. Phys. Chem.*

1. Department of Physics, University of Maryland  
Metallurgy, Annapolis.

HANDEREK, J.; PIECH, T.

On the time of maintainment of heterocharge on wax electrets, as dependent on screening. Acta physica Pol 24 no.3:339-344 S'63.

1. Chair of Physics, Higher Teachers' College, Katowice, and I Chair of Physics, Mining and Metallurgical Academy, Krakow.

PIECH, T.

10th anniversary of Dr. Stefan Piwnicki's death. p. 100.

PISTEFY FIANYKI. (Polskie Towarzystwo Fizyczne) Warszawa, Poland. Vol. , no. ,  
1959.

Monthly List of East European Accessions (FEAI) IC, Vol. , no. , August 1960.  
UNCL

VAZAN, M.; PŘEKH, Ya.; SPOYAN, S. *1 re. 1 / 11*

Synthetic rubber industry in Czechoslovakia. *Kauch. i rez.* 19 no. 5:  
1-2 My '60. (MIRA 13:7)

1. Ministerstvo khimicheskoy promyshlennosti Chekhoslovatskoy  
respubliki. Nauchno-issledovatel'skiy institut sinteticheskogo  
kauchuka, g. Gottval'dov.  
(Czechoslovakia--Rubber, Synthetic)

*Piech, Ya*

S/138/60/000/001/001  
A051/A029

AUTHORS: Vazan, M , Pekh. Ya . Stoyan, S.

TITLE: The Synthetic Rubber Industry in the Czechoslovakian Rep.

PERIODICAL: Kauchuk i Rezina. 1960. No 5. pp 1 - 2

TEXT: Czechoslovakia is one of the first countries in the world in the consumption of rubber ( 4 kg per head ), but as to production it occupies one of the last places. During the second world war a semi-industrial plant was established for the production of chloroprene rubber, but the output was lower than the demand. In 1952, with the help of the USSR and the GDR, a plant for the production of butadiene-styrene rubber was erected which served as a basis for the subsequent development of this industry. The USSR gave Czechoslovakia the CKC-30A (SKS-30A) rubber production project. Two circumstances had to be considered in the development of the rubber industry: selection of raw materials and selection of the synthetic rubber type. After numerous economic investigations it was decided to produce butadiene from synthetic alcohol and later from its derivatives. Now Czechoslovakia can obtain homologues of methane and isopentanes, in adequate

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S/138/60/000  
A091/A020

The Synthetic Rubber Industry in the Czechoslovakian Republic

ties from the USSR and the problem of raw material is mostly solved. The total overhead cost of production has been decreased from 30 to 10 million korunas per ton of capacity in the production of synthetic rubber. The main problems involved in the production of synthetic rubber are being solved at the scientific research institute of the "Kauchuk" Plant in the city of Bratislava. A technology has been developed for the production of a high plastic rubber, using colophony as the emulsifier and separation of the rubber in the form of grains. Several scientific research institutes participate in the solution of this technological problem: the Rytava Organics Scientific Institute, the Prague Thermal Engineering Institute, as well as the Chemical Projects and Machine-Building Institutes, also in Prague. The production costs will be about 25 million korunas per year without considering quality improvement and economy of capital investments. Work on the elimination of waste from the sewage has been carried out, the purpose being to eliminate the synthetic emulsifiers of the Nekal type from the effluent waters for its regeneration. The Scientific Research Institute of Oil and Gas Industries in the city of Bratislava has developed a new type

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S/138/60/000/001/001  
A051/A010

The Synthetic Rubber Industry in the Czechoslovakian Republic

of selective calcium-nickel-phosphate catalyst for the hydration of acetylene into butadiene. The catalyst ensures a polymerization depth of 40% in butadiene at a 90% selectivity and will be used in the second stage of the synthetic rubber plant being built in Kralupy. The first stage of plant construction has begun and will be completed by 1963, the second stage by 1965. At the same time, a plant is being designed for the production of chloroprene rubber to be produced from acetylene obtained by the partial oxidation of methane. By 1965, the rubber consumption per head of the population will be brought to 6 kg; by 1970, this figure will reach 10 kg. In order to develop the rubber-manufacturing industry in Czechoslovakia further, it is important to investigate some of the problems involved in the production of stereo-regular types of rubber.

ASSOCIATION: Ministerstvo khimicheskoy promyshlennosti Chekhoslovatskoy Respubliki, Nauchno-issledovatel'skiy institut sinteticheskogo kauchuka, g. Gottval'dov (Ministry of Chemical Industry of the Czechoslovakian Republic, city of Gottval'dov, Synthetic Research Institute of Synthetic Rubber)

Card 3/3

*Pekh, Yu. Yu.*

PEKH, Yu.Yu.; STARIKOV, V.N., red.; MAKAROV, I.M., tekhn.red.

[Increasing the size of packages on PM-114-L, PM-88-L and PM-88L1 ring-spinning machines] Uvelichenie pakovok na priadil'nykh kol'tsevykh mashinakh: MP-114-L, PM-88-L i PM-88L1. Smolensk, Sovet narodnogo khoziasitva Smolenskogo ekon.administrativnogo raiona, 1960. 6 p.  
(MIRA 13:11)

1. Moscow. Vystavka dostizheniy narodnogo khozyaystva SSSR.
2. Zavednyushchiy priyadil'nyy proizvodstvom Smolenskogo I'no-kombinata (for Pekh).  
(Spinning machinery)

*Prech, Yu.Yu.*  
LAZAREVA, S.Ye.; KOROLEVA, N.D.; KIRILLOV, L.N.; FRIDLYAND, S.I.;  
SHAPIRO, L.M.; LEBEDEV, K.A.; ~~PEKH, Yu.Yu.~~; MEKLER, E.A.

Spinning of chemically treated (boiled and bleached) roving.  
Tekst. prom. 19 no.7:42-45 JI '59. (MIRA 12:11)  
(Textile finishing)

KIRILLOV, L.N., kand. tekhn. nauk: PEKH. Yu.Yu.

*Pekh Yu.Yu.*

Modernization of ring spinning machines for flax spinning.  
Tekst.prom. 21 no.6:21-24 Je '61. (MIRA 15:2)

1. Glavnyy inzh. Smolenskogo l'nokombinata (for Pekh).  
(Spinning machinery)

Piech

PEKH, Yuliy Yul'yevich; BOL'SHAKOV, B.A., retsenzent; TARASOV, S.V.,  
retsenzent; GORDEYCHIK, G.M., red.; KALININA, N.M., red.;  
TRISHINA, L.A., tekhn. red.

[Flax hackling machine; arrangement, assembly, adjustment and  
maintenance] L'nochesal'naia mashina; ustroistvo, montazh,  
naladka i obsluzhivanie. Pereizdanie. Moskva, Rostekhzdat,  
1961. 186 p. (MIRA 15:4)

(Flax processing machinery)

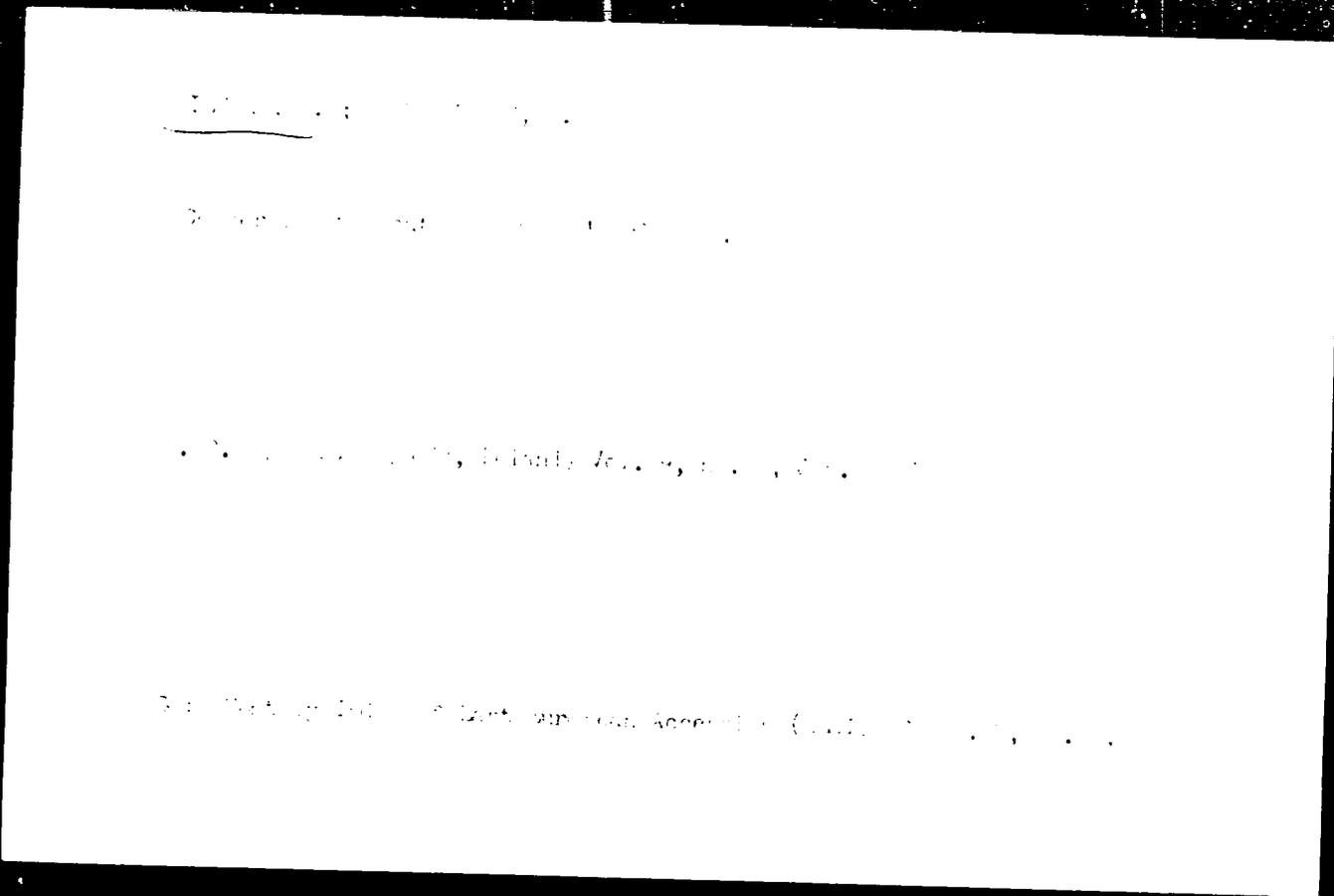
PIECHA, A: STARONICZ, J: SZYMASZEK, J

The investment policy of the coal mining industry. p.20

PRZEGLAD GORNICZY. (Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow  
Gornictwa) Katowice, Poland  
Vol.15, no.1/2 Jan./ Feb. 1959

Monthly list of East European Accessions (EEAI) LC Vol.8, no.7 July 1959

Uncl.



PIECHEVA, R. (Sofia); ZAKHARIEV, L. (Sofia)

International book exchange of the Bulgarian Academy of Sciences.  
Spisane BAN 5 no.2:108-111 '60. (EEAI 9:11)  
(Bulgarian Academy of Sciences)  
(Exchanges, Literary and scientific)

PIECHNIK, Stefan; WNUK, Milosz.

Steady-state creep process of a bar loaded by an axial force and a torque. Archiw mech 15 no. 3:397-409 '63.

1. Technical University, Krakow.

24 4200

1961

39 2807

23523  
P/033/61/013/001/006/009  
D242/D301

AUTHOR: Piechnik, Stefan (Kraków)

TITLE: The influence of bending on the limit state of a circular bar subjected to torsion

PERIODICAL: Archiwum mechaniki stosowanej, v. 13, no. 1, 1961, 77-106

TEXT: The paper is concerned with solving the problem of the influence of limit load of a bar subjected to simultaneous torsion and bending for small  $k/\omega$  (curvature to unit angle of twist) ratios. The stress function

$$\frac{\partial}{\partial z} \left( \chi \frac{\partial \Phi}{\partial z} \right) + \frac{\partial}{\partial y} \left( \chi \frac{\partial \Phi}{\partial y} \right) + \frac{2}{3} \frac{\dot{\omega}}{k} = 0, \quad (1.2)$$

where

$$\chi = \frac{y}{\sqrt{1 - \left( \frac{\partial \Phi}{\partial z} \right)^2 - \left( \frac{\partial \Phi}{\partial y} \right)^2}}$$

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The influence of bending...

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is derived on the basis of the Levy-Mises theory of plasticity. By considering the theory of Hencky-Ilyushin (the stress deviator is proportional to the strain deviator) the same equation is derived with  $\dot{\omega}/k$  replaced by  $\dot{\omega}/k$ . The warping functions in each case are deduced, with, again, the same result for each except for the interchange of  $\dot{\omega}/k$  and  $c/k$ . The warping function on the basis of Hencky-Ilyushin is

$$3\psi\eta^2(t_\eta + t_\zeta) + t_\zeta(t_\eta - \zeta)^2 - t_\eta(t_\zeta + \eta)^2 - 2t_\eta(t_\zeta + \eta)(t_\eta - \zeta) - 3\psi\eta t_\eta = -3\psi\eta\zeta. \quad (2.18)$$

The solutions of both the differential equation for the stress function and that for the warping function are given. In each case it is assumed that the problem is confined to the influence of bending on the limit load of a bar subjected to torsion, whence  $\psi = (k/\mu)^2$  can be considered small. The equations are then solved by the perturbation method, in which the essential feature is the determining of the solution in the form of an infinite functional power series of a small parameter. [Abstracter's note: The author calls atten-

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The influence of bending...

tion to the application of this method to the solution of the problem of elastic plane strain and stress by D.D. Ivlev (Ref. 5: Priblizhennoye resheniye metodov malogo parametra ploskikh uprugoplasticeskikh zadach teorii ideal'noy plastichnosti, Vestnik M.G.U., 5, 1957) 7. The warping function solves to give an infinite system of differential equations of the type  $f_i'' = g_i(x)$  for  $i = 1, 2, \dots$ ,

while the stress function solves to a system of equations of the type  $a(x)\phi_i'' + c_1\phi_i' + c_2(\phi_i')^{3/2} = w(x)$  for  $i = 1, 2, \dots$ . It is

deemed more convenient to use the warping function to find the warping and stress results because (a) it is easier for calculation, and (b) it emphasizes that the assumption of zero warping made by many authors is too rough and erroneous. On substitution of the boundary conditions the result for the warping is obtained:

$$\varphi = \frac{a\omega\sqrt{3}}{2Q} \sqrt{e^2 + \left(3e^2 \sin^2 \theta - 2 \frac{\partial t_1}{\partial \theta}\right) \psi + \left[\left(\frac{\partial t_1}{\partial \theta}\right)^2 + \frac{1}{e^2} \left(\frac{\partial t_1}{\partial \theta}\right)^2 - 2 \frac{\partial t_2}{\partial \theta}\right] \psi^2 + \dots} \quad (6.5)$$

On ignoring functions of  $\psi^2$  and above  $[\psi = (k/\omega)^2]$ , the stress Card 3/6

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terms approximate to

$$\begin{cases} \sigma_x = Q\sqrt{3} \frac{\rho \sin \theta \sqrt{\psi}}{\sqrt{\rho^2 + 3(\rho^2 \cos^2 \theta - 2\rho \cos 2\theta)\psi}} \\ \tau_{xy} = \frac{Q}{\sqrt{3}} \frac{-\rho \cos \theta + 3\left(-\frac{1}{2} \cos \theta \rho + \cos^3 \theta\right)\psi}{\sqrt{\rho^2 + 3(\rho^2 \cos^2 \theta - 2\rho \cos 2\theta)\psi}} \\ \tau_{xz} = \frac{Q}{\sqrt{3}} \frac{\rho \sin \theta + 3\left(-\frac{1}{2} \sin \theta \rho + \sin^3 \theta\right)\psi}{\sqrt{\rho^2 + 3(\rho^2 \cos^2 \theta - 2\rho \cos 2\theta)\psi}} \end{cases} \quad (6.11)$$

Plots of warping against longitudinal stress and warping against the shear stresses are given for various  $k/\omega$  ratios. The bending moment ( $M_g$ ) and torque ( $M_s$ ) are obtained in terms of the stress from

$$M_g = \int_F \int \sigma_x y dx dy, \quad M_s = \int_F \int (\tau_{xy} y - \tau_{xz} z) dx dy. \quad (7.1)$$

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The influence of bending...

Expressed in terms of  $m_g \frac{M_g}{M_s}$  and  $m_s \frac{M_s}{M_g}$  the results are

and

$$m_g = 1.3603x - 3.5708x^3 + 40.7452x^5 + \dots \quad (7.6)$$

$$m_s = 1.0000 - 0.7500x^2 + 2.9297x^4 - \dots \quad (7.7)$$

where  $x = k/\omega = \sqrt{W}$ . As often in practical applications the given quantities are usually the bending moment and torque,  $k/$  is expressed as follows

$$x = 1.1547 \sqrt{1 - m_s} (3.6042 - 2.6042m_s + \dots)$$

$$x = 0.7351m_g + 1.0428m_g^3 - 1.9926m_g^5 + \dots \quad (8.5)$$

$$x = 0.7351 \frac{m_g}{m_s} + 0.7449 \left(\frac{m_g}{m_s}\right)^3 - 3.2355 \left(\frac{m_g}{m_s}\right)^5 + \dots \quad (8.7)$$

The curve of limit load in the  $(m_s, M_g)$  system is given as a plot of  $M_g$  versus  $m_s$ , showing upper and lower bound curves. [Abstracter's note: The equations of these curves were derived by Hill and Siebel on the basis of Levy-Mises]. It is stated that the plot is sufficiently accurate for  $k/\omega < 0.25$ . It is concluded that the equations can, owing to their simplicity, be fully utilized in en-  
Card 5/6

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The influence of bending...

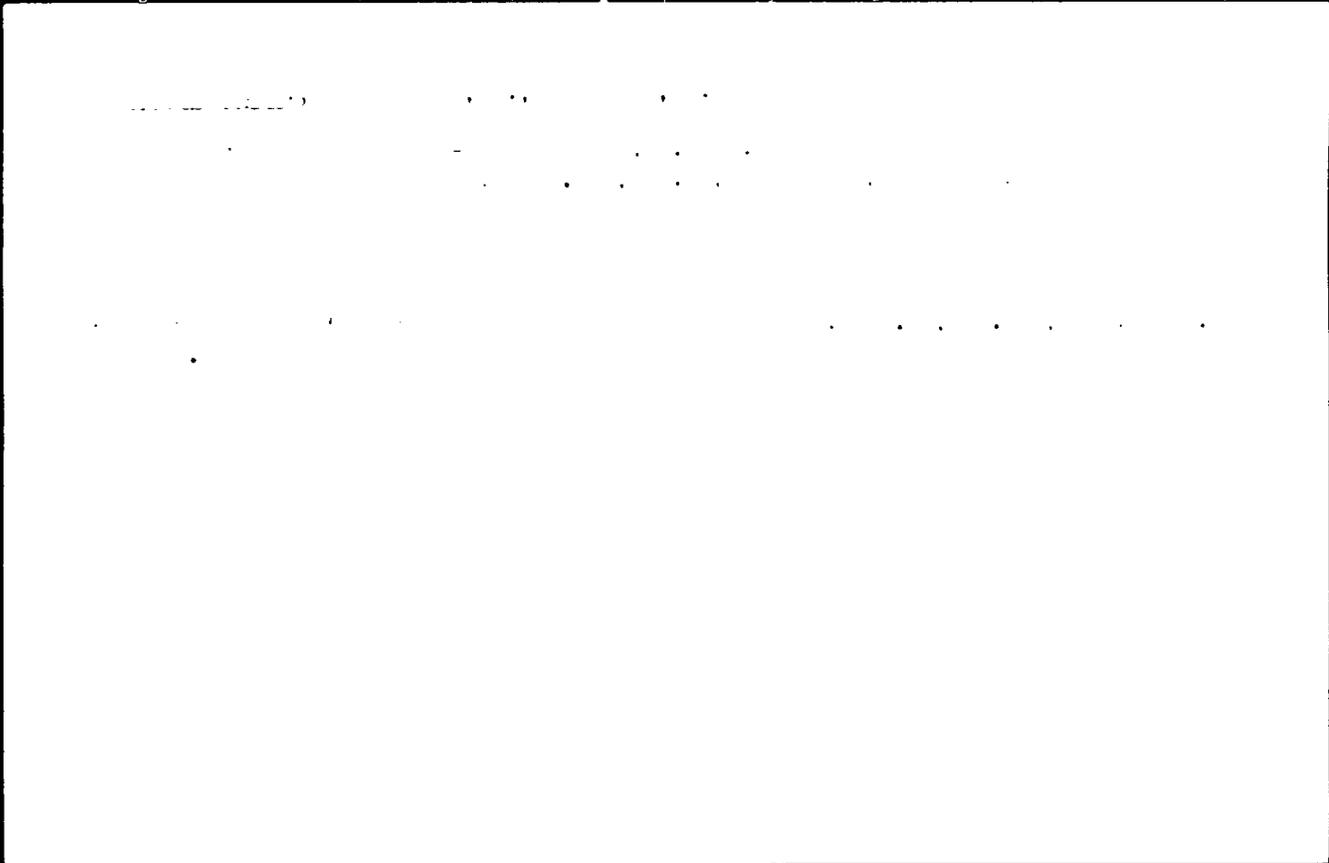
P/033/61/013/001/006/009  
D242/D301

gineering practice. There are 7 figures, 3 tables and 25 references: 13 Soviet-bloc and 12 non-Soviet-bloc. The references to the English-language publications read as follows: P.G. Hodge, Plastic Analysis of Structures, McGraw Hill Book Company, New York - Toronto - London, 1959; F.A. Gaydon, H. Nuttall, On the Combined Bending and Twisting of Beams of Various Sections, J. Mech. Phys. Solids, 1957, 17-26; M.C. Steele, The Plastic Bending and Twisting of Square Section Members, J. Mech. Phys. Solids, 3, 1954, 156-166.

ASSOCIATION: Technical University of Kraków

SUBMITTED: May 30, 1960

Card 6/6



PIECHNIK, Stefan

The influence of bending on the limit state of a circular bar  
subject to torsion. Archiw mech 13 no.1:77-106 '61.

1. Technical University, Krakow.

PIECHNIK, Stefan (Krakow); ZYCZKOWSKI, Michal (Krakow)

Plastic interaction curve for bending and torsion of  
a circular bar. Archiw mech 13 no.5:669-626 '61.

1. Technical University of Krakow.

PIECHOCINSKI, Ryszard

Effect of iodine on the histological picture of the ovary.  
Pat.Pol. 15 no.1:23-25 Ja-Mr '64

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Ibid. :37-39 ..

1. Z Zakladu Patologii Ogolnej i Doswiadczalnej AM w Kra-  
kowie; kierownik: prof.dr.med. B.Giedosz.

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Effect of iodine on the activity of gonadotropic hormones.  
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1. Z Zakladu Patologii Ogolnej i Doswiadczalnej AM w Krakowie;  
kierownik: prof.dr. med. B.Giedosz.

\*

PIECHOCINSKI, Ryszard

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347-349 J1-S '62.

Effect of iodine on the ovary. II. Ibid.:377-378

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PIERZCHALSKI, Tadeusz, doc. dr; PIECHNIK, Zbigniew, mgr inż.

Quantitative determination of several glycoalkaloids occurring simultaneously in potatoes by using cationite paper. Chem anal  
9 no.2:283-289 '64.

1. Department of Technology, School of Economics, Sopot.

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Kosmos biol 13 no.3:270-275 '64.

PIECHOCINSKI, S.

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"Corn" p. 16 (Plon, Vol. 5, No. 4, Apr. 1954)

SO: Monthly List of East European Accessions, Vol. 3, No. 6,  
Library of Congress, June, 1954, Uncl.

PIECHOCKA, JANINA.

Assessment of food value of *Vaccinium uliginosum*  
 Janina Piechocka and Franciszek Szymczyk. *Roczniki  
 Państwowego Zakładu Hig.* 6, 109-17(1955)(English sum-  
 mary).—The fruits of *Vaccinium uliginosum* had the follow-  
 ing composition: water 87.2-89.9; sugar, before inversion 3.83,  
 after inversion 6.28; fructose 2.76; glucose 1.06; sucrose  
 0.22; acids as malic acid 1.50%; and vitamin C 43.7  
 mg. %; BrOH was not detected. Toxicological studies  
 showed no alkaloids or glucosides were present. Feeding  
 tests on 70 mice and one human adult gave no toxicity  
 symptoms.  
 Alina S. Szczesniak

①

CETNAROWICZ, Halina; LATALLO, Zbigniew; PIECHOCKA, Teresa; ZALUSKA, W.

A case of congenital factor V deficiency. Pol. med. wewnet. 32 no.7:  
757-759 '62.

1. Z Instytutu Hematologii w Warszawie i z Poradni dla Chorych na Hemo-  
filie w Warszawie Kierownik: doc. dr med. W. Trojanowski.  
(HEMORRHAGIC DIATHESIS)

NIEWIAROWSKI, Stefan; KURATOWSKA, Zofia; PIECHOŃKA, Teresa

Studies on hemophilia in Poland. III. A case of hemophilia C (PTA factor deficiency). Pol. tyg. lek. 17 no.14:507-510 2 Ap '62.

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(HEMOPHILIA statist)

PIECHOCKI, Andrzej

Molluscs of the Public Park in the city of Lodz. Nauki matemat. przyrod.  
Lodz no.14:133-142 '63.

1. Katedra Zoologii Ogolnej, Uniwersytet, Lodz.

SENGER, A.; GRYBOS, J.; JESKE, Witold; PIECHOCKI, K.; POJAKOWSKI, I.; SWIDERSKI, G.

Significance of early stabilization of the spine in the treatment of spinal fractures with cord injuries. Chir. narz. ruchu 22 no.4:377-380 1957.

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Poznan, ul. Dzierzynskiego 135/147

(SPINE, fractures

causing spinal cord inj., surg., early stabilization of spine (Pol))

(SPINAL CORD, wds. & inj.

caused by fract. of spine, surg., early stabilization of spine (Pol))

PIECHOCKI, KONSTANTYN

TOMASZEWSKA, Janina; PIECHOCKI, Konstantyn; SOWINSKA, Maria

Selection of gymnastic exercises in relation to various types of scoliosis. Chir. narz. ruchm 22 no.2:233-236 1957.

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(SCOLIOSIS, ther.

exercise (Pol))

(EXERCISE THERAPY in var. dis.

scoliosis (Pol))

PIECHOCKI, Konstantyn

Aprpos of surgical therapy of rheumatoid foot deformities. *Ortop. i  
narzad. ruchu ortop. Pol.* 28 no.7:723 '63

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PIECHOCKI, Konstantyn

Evaluation of surgical methods in the treatment of false joints of bones of the forearm. Chir. narz. ruchu 696 '61. orthop. polska 26 no.6:693-

1. Z Kliniki Ortopedycznej AM w Poznaniu Kierownik: prof. dr W. Dega.  
(FOREARM fract & disloc) (PSEUDARTHROSIS surg)

PIECHOCKI, Marian

Value of ACTH and steroid hormones in the treatment of bullous diseases of unknown etiology. Przegł. dermat. 49:94-98 '62.

1. Z Kliniki Dermatologicznej AM w Poznaniu Kierownik: prof. dr A. Straszynski.

(CORTICOTROPIN) (ADRENAL CORTEX HORMONES)

(PEMPHIGUS) (DERMATITIS HERPETIFORMIS) (DERMATOLOGY)

BURDA, Adam; PIECHOCKI, Marian

Angioma serpinginosum. Przegł. derm. 49:183-185 '62.

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A. Straszynski.

(ANGIOKERATOMA)

PIECHOCKI, Marian; KONARSKA-IZIEDEIC, Barbara

Problem of so-called mucosal pemphigoid in relation to our own clinical experience. Polski tygod. lek. 14 no.10:422-428 9 Mar 59.

1. (Z Kliniki Dermatologicznej A.M. w Poznaniu; dyrektor: prof. dr Adam Straszynski i z Kliniki Ocznej A.M. w Poznaniu; dyrektor: prof. dr A. Kwaskowski). Adres: Poznan, ul. Glogowska 87 m. 6.

(PEMPHIGUS, differ. diag.

mucosal pemphigoid, case reports (Pol))

BURDA, Adam; PIECHOCKI, Marian

Problem of keratoacanthoma multiplex. Przegl.derm.,Warsz. 46  
no.3:249-258 My-Je '59.

Z Kliniki Dermatologicznej A.M. w Pownanin. Kierownik: prof.  
dr. A. Straszynski.

(SKIN neoplasms)

(CARCINOMA EPIDERMOID case reports)

FIECHOCKI, M.

Social services and industrial safety. p. 137

GAZETA CUKROWNICZA. (Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Przenyslu Rolnego i Spozyczego i Centralny Zarzad Przenyslu Cukrowniczego) Warszawa, Poland. Vol. 61, no. 4, April 1959.

Monthly List of European Accessions (EEA) LC, Vol. 8, no. 8  
August 1959.

Uncl.

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Social services and industrial safety. p. 137

GAZETA CUKRO-NICZA. (Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Przenyslu Rolnego i Spozywczego i Centralny Zarzad Przenyslu Cukrowniczego) Warszawa, Poland. Vol. 61, no. 5, May 1959.

Monthly List of European Accessions (EEAI) LC, Vol. 8, no. 8  
August 1959.

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 fluorene-4-carboxylic acid (III). The action of thiophenol  
 on acid chlorides of II or III in  $C_6H_6$  (in presence of  
 $C_6H_5N$ ) yielded the resp. thiophenol esters (IV), acetal m.  
 168-70°, and (V), m. 92-4°. The action of a large excess  
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